

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE RECORD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

<b>Operator: AMEREN ILLINOIS COMPANY</b>	Operator ID#: 32513
<b>Inspection Date(s): 3/10/2015</b>	Man Days: 1
<b>Inspection Unit: Eden Storage</b>	
<b>Location of Audit: Sparta/Eden Storage</b>	
<b>Exit Meeting Contact:</b>	
<b>Inspection Type: Standard Inspection - Record Audit</b>	
<b>Pipeline Safety Representative(s): Valerie Schwing</b>	
<b>Company Representative to Receive Report: Michael Fuller</b>	
<b>Company Representative's Email Address: mfuller2@ameren.com</b>	

<b>Headquarters Address Information:</b>	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
<b>Official or Mayor's Name:</b>	Ron Pate Phone#: (217) 424-6518 Email:	
<b>Inspection Contact(s)</b>	<b>Title</b>	<b>Phone No.</b>
Chuck Tebbe	Quality Assurance	

Gas System Operations	Status
Gas Transporter	Ameren
Miles of Main	2.44
Confirm Operator's Potential Impact Radius Calculations	See below
<b><u>General Comment:</u></b> Staff reviewed the 2013 and 2014 PIR calculations for the 2.375, 3.5, and 6.625 inch diameter pipe with a MAOP of 400 PSI.	
Annual Report (Form 7100.2.1) reviewed for the year:	2014
Regulatory Reporting Records	Status
[191.5] Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	Not Applicable
<b><u>General Comment:</u></b>	

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<i>The operator did not experience any incidents for the calendar years 2013 and 2014.</i>		
[191.15(a)]	Was a DOT Incident Report Form F7100.2 submitted within 30 days after detection of an incident?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any incidents for the calendar years 2013 and 2014.</i>		
[191.15(b)]	Were there any supplemental incident reports when deemed necessary?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any incidents for the calendar years 2013 and 2014.</i>		
[191.23(a)]	Did the operator report Safety Related Conditions?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any safety related conditions in 2013 and 2014.</i>		
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any safety related conditions in 2013 and 2014.</i>		
[192.16(c)]	Customer Notification: Has the operator notified each customer after the customer first receives gas at a particular location?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator does not have any customers only one farm tap that serves the Ameren gas powered rectifier.</i>		
<b>DRUG TESTING</b>		<b>Status</b>
Refer to Drug and Alcohol Inspection Forms and Protocols		<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>The operator's Drug and Alcohol records are kept at the St. Louis operating center and will be reviewed at a later date.</i>		
<b>TEST REQUIREMENTS</b>		<b>Status</b>
[192.517(a)][192.505,192.507,192.509,192.511(c)]	Are pressure test records being maintained for piping operating above 100 psig?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the strength tests and the leak tests conducted in 2013 for 75 feet of 6 inch X42 pipe with a wall thickness of 0.280 inches.</i>		
[192.517(b)][192.511,192.509,192.513]	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		

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*The operator has not installed any pipeline that operates below 100 PSI in 2013 or 2014.*

UPRATING		Status
<b>Category Comment:</b>		
<i>The operator has not uprated the pipeline.</i>		
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	Not Applicable
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	Not Applicable
OPERATIONS		Status
<b>Category Comment:</b>		
<i>Staff did not review the operation records because these records are kept at the Pawnee operating center.</i>		
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	Not Checked
Has the operator conducted a review of the Operator Qualification Plan once per yr/15 months?		Not Checked
[192.603(b)][192.605(b)(3)]	Are construction records, maps, and operating history available to operating personnel?	Not Checked
[192.603(b)][192.605(b)(8)]	Has the operator periodically reviewed personnel's work to determine the effectiveness of normal O&M procedures when deficiencies are found?	Not Checked
[192.603(b)][192.605(c)(1)(i)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of unintended closure of valves or shutdowns?	Not Checked
[192.603(b)][192.605(c)(1)(ii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of increase or decrease in pressure or flow rate outside normal operating limits?	Not Checked
[192.603(b)][192.605(c)(1)(iii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of loss of communications?	Not Checked
[192.603(b)][192.605(c)(1)(iv)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of operation of any safety device?	Not Checked
[192.603(b)][192.605(c)(1)(v)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in a hazard to persons or property?	Not Checked

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[192.603(b)][192.605(c)(2)]	Does the operator maintain documentation of checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation?	<b>Not Checked</b>
[192.603(b)][192.605(c)(3)]	Does the operator maintain documentation of notifying responsible operator personnel when notice of an abnormal operation is received?	<b>Not Checked</b>
[192.603(b)][192.605(c)(4)]	Does the operator maintain documentation for periodically reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found?	<b>Not Checked</b>
[192.603(b)][192.619,192.621,192.623]	Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)	<b>Not Checked</b>
<b>CONTINUING SURVEILLANCE RECORDS</b>		<b>Status</b>
[192.709(c)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>Staff did not review the continuing surveillance records because these records are kept at the Pawnee operating center.</i>		
<b>CLASS LOCATION CHANGE</b>		<b>Status</b>
[192.709(c)][192.609]	Does the operator maintain documentation when the class location changes for a segment of pipe operating at a hoop stress that is more than 40% SMYS?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator's pipeline system does not operate at a hoop stress that is more than 40% SMYS.</i>		
<b>QUALIFICATION OF PIPELINE PERSONNEL</b>		<b>Status</b>
Refer to operator Qualification Inspection Forms and Protocols		<b>Not Checked</b>
<b><u>General Comment:</u></b> <i>Staff did not review the OQ records because these records are kept at the Pawnee operating center.</i>		
<b>DAMAGE PREVENTION RECORDS</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>Staff did not review the Damage Prevention records because these records are kept at the Pawnee operating center.</i>		
[192.709(c)][191.17(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	<b>Not Checked</b>
Has the number of damages increased or decreased from prior year?		<b>Not Checked</b>

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[192.709(c)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	<b>Not Checked</b>
[192.709(c)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	<b>Not Checked</b>
Does the operator have a Quality Assurance Program in place for monitoring the locating and marking of facilities?		<b>Not Checked</b>
Do pipeline operators include performance measures in facility locating contracts?		<b>Not Checked</b>
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement? <a href="http://www.icc.illinois.gov/julie/">http://www.icc.illinois.gov/julie/</a>	<b>Not Checked</b>
Has the Operator adopted applicable section of the Common Ground Alliance Best Practices?		<b>Not Checked</b>
If no, were Common Ground Alliance Best Practices discussed with Operator?		<b>Not Checked</b>
<b>EMERGENCY PLANS</b>		<b>Status</b>
<u>Category Comment:</u>		
Staff did not review the emergency records because these records are kept at the Pawnee operating center.		
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	<b>Not Checked</b>
[192.603(b)][192.615(b)(2)]	Has the operator maintained documentation that the appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures and that the training was effective?	<b>Not Checked</b>
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	<b>Not Checked</b>
[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	<b>Not Checked</b>
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	<b>Not Checked</b>
[192.603(b)][192.615(a)(11)]	Has the operator maintained documentation of actions that were required to be taken by a controller during and emergency?	<b>Not Checked</b>
<b>PUBLIC AWARENESS PROGRAM - RECORDS</b>		<b>Status</b>
<u>Category Comment:</u>		

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<i>Staff did not review the Public Awareness records because these records are kept at the Pawnee operating center.</i>		
Refer to Public Awareness Program Inspection Forms and Protocols		<b>Not Checked</b>
<b>ODORIZATION OF GAS</b>		<b>Status</b>
<u><b>Category Comment:</b></u> <i>Staff reviewed the operator's Monthly Odorization Reports for 2013 and 2014. The Sniff tests are conducted by the Sparta operating center.</i>		
[192.709(c)][192.625(f)]	Where required, has the operator maintained documentation of odorant concentration level testing?	<b>Satisfactory</b>
[192.709(c)][192.625(e)]	Where required, has the operator maintained documentation of odorizer tank levels?	<b>Satisfactory</b>
<b>PATROLLING &amp; LEAKAGE SURVEY</b>		<b>Status</b>
<u><b>Category Comment:</b></u> <i>Staff reviewed the operator's pipeline leak surveys and patrol inspection documents for 2013 and 2014.</i>		
[192.709(c)][192.705]	Does the operator maintain documentation of a patrol program as required?	<b>Satisfactory</b>
[192.709(c)][192.706]	Does the operator maintain documentation of leakage survey(s) performed on a transmission pipeline?	<b>Satisfactory</b>
<b>ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES</b>		<b>Status</b>
<u><b>Category Comment:</b></u> <i>The operator did not abandon or deactivate any facilities in 2013 or 2014.</i>		
[192.603(b)][192.727(b)]	Did the operator maintain documentation demonstrating that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	<b>Not Applicable</b>
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	<b>Not Applicable</b>
[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	<b>Not Applicable</b>
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	<b>Not Applicable</b>
<b>COMPRESSOR STATION</b>		<b>Status</b>
<u><b>Category Comment:</b></u> <i>The operator's system does not contain a compressor station.</i>		

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[192.709(c)][192.731(a)]	Has the operator maintained documentation of the compressor station relief devices at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
[192.709(c)][192.731(c)]	Has the operator maintained documentation compressor station emergency shutdown at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
[192.709(c)][192.736(c)]	Has the operator maintained documentation of the compressor stations – detection and alarms?	<b>Not Applicable</b>
<b>PRESSURE LIMITING AND REGULATION</b>		<b>Status</b>
<u><b>Category Comment:</b></u> <i>The operator's system does not contain any pressure limiting or regulation stations.</i>		
[192.709(c)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
[192.709(c)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
[192.709(c)][192.743(b)]	If the operator used calculations to determine sufficient capacity, were the calculation reviews documented at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
[192.709(c)][192.743(a),192.743(b),192.195(b)(2)]	Is overpressure protection provided by the supplier pipeline downstream of the take point?	<b>Not Applicable</b>
[192.709(c)][192.743(a)]	If Yes, does the operator have documentation to verify that these devices have adequate capacity?	<b>Not Applicable</b>
<b>VALVE MAINTENANCE</b>		<b>Status</b>
[192.709(c)][192.745(a),192.745(b)]	Did the operator inspect and partially operate transmission valves that might be required during any emergency at a minimum of 1 per year/15 months?	<b>Satisfactory</b>
<u><b>General Comment:</b></u> <i>Staff reviewed the operator's valve location and inspection records for 2013 and 2014.</i>		
[192.709(c)][192.749]	Did the operator inspect and maintain vaults > 200 cubic feet at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
<u><b>General Comment:</b></u> <i>The operator's system does not contain vaults.</i>		
[192.709(c)][192.179]	Are transmission line valves being installed as required of 192.179?	<b>Satisfactory</b>
<u><b>General Comment:</b></u> <i>Staff reviewed the operator's valve location and inspection records for 2013 and 2014.</i>		

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[192.709(b)][192.745(b)]	Did the operator take prompt remedial action to correct any valve found inoperable, unless an alternative valve was designated?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the operator's valve location and inspection records for 2013 and 2014.</i>		
<b>Investigation Of Failures</b>		<b>Status</b>
[192.709(c)][192.617]	Did the operator experience accidents or failures requiring analysis?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any failures that required analysis in 2013 or 2014.</i>		
<b>WELDING OF STEEL PIPE</b>		<b>Status</b>
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the documentation for the qualified welding procedures in the operator's O&amp;M.</i>		
[192.603(b)][192.227,192.229]	Does the operator have documentation of welder qualification documentation as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the KS Energy welder's qualifications for the Eden Ultra-sonic Meter Installation project constructed in 2013. Staff also reviewed Ameren's personnel welding qualifications for 2014.</i>		
[192.807]	Does the operator have documentation of welder OQ records?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the KS Energy welder's qualifications for the Eden Ultra-sonic Meter Installation project constructed in 2013. Staff also reviewed Ameren's personnel welding qualifications for 2014.</i>		
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the JanX's operator qualifications and employee certifications. Staff also examined randomly selected radiographs from film numbers X1-X20 and T1-T2. JanX was the nondestructive testing contractor in 2013.</i>		
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the JanX's operator qualifications and employee certifications. Staff also examined randomly selected radiographs from film numbers X1-X20 and T1-T2. JanX was the nondestructive testing contractor in 2013.</i>		
<b>CORROSION CONTROL RECORDS</b>		<b>Status</b>
[192.491(a)][192.491(a)]	Has the operator maintained maps or records of	<b>Satisfactory</b>



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	cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system	
<b><u>General Comment:</u></b> <i>Staff reviewed the operator's construction maps and records of the Eden Storage Field.</i>		
[192.491][192.459]	Has the operator maintained documentation of examination when buried pipe was exposed?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the examination of exposed pipe documentation in 2013 when the Eden Ultra-sonic Meter was installed.</i>		
[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the pipe to soil readings in the operator's Corrosion Tracking System Database and compared them to the Corrosion Tech's Read Sheets.</i>		
[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the 2013 and 2014 rectifier inspection records.</i>		
[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the operator's rectifier inspections and non-critical interference bond inspections for 2013 and 2014.</i>		
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the operator's rectifier inspections and non-critical interference bond inspections for 2013 and 2014.</i>		
[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator's system does not contain unprotected pipelines.</i>		
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections	<b>Satisfactory</b>

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	or tests for electrical isolation including casings?	
<b><u>General Comment:</u></b> <i>Staff reviewed the operator's inspections for the two casing in the Corrosion Tracking System Database for 2013 and 2014.</i>		
[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the pipe to soil readings in the operator's Corrosion Tracking System Database and compared them to the Corrosion Tech's Read Sheets.</i>		
[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the pipe to soil readings in the operator's Corrosion Tracking System Database and compared them to the Corrosion Tech's Read Sheets.</i>		
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator's system does not contain adjacent underground metallic structures that could be affected by the cathodic protection system.</i>		
[192.491][192.475(a)]	Has the operator maintained documentation of investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator does not carry corrosive gas.</i>		
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the Pipe Examination forms when pipe was removed in 2013 for the Eden Ultra-sonic Meter Installation Project.</i>		
[192.491]	Has the operator maintained documentation of written procedures supported by as-built drawings or other construction records?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the construction documentation in 2013 when the Eden Ultra-sonic Meter was installed.</i>		
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		

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<i>Staff reviewed the operator's coupon records for the field side of the dehydration station for 2013 and 2014.</i>		
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the Pipeline Patrol forms for 2013 and 2014 which did not discover any atmospheric corrosion.</i>		
[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the Pipeline Patrol forms for 2013 and 2014.</i>		
[192.491][192.483(a), 192.483(b), 192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not have to remove any pipe due to external corrosion in 2013 and 2014.</i>		
<b>TRAINING - 83 IL ADM. CODE 520</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>Staff did not review the training records because these records are kept at the Pawnee operating center.</i>		
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	<b>Not Checked</b>
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job classification?	<b>Not Checked</b>
[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	<b>Not Checked</b>
[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	<b>Not Checked</b>

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